

## CHAPTER 96

### BUILDING SEWERS AND CONNECTIONS

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**96.01 PERMIT.** No unauthorized person shall uncover, make any connection with or opening into, use, alter, or disturb any public sewer or appurtenance thereof without first obtaining a written permit from the City. The application for the permit shall set forth the location and description of the property to be connected with the sewer system and the purpose for which the sewer is to be used, and shall be supplemented by any plans, specifications, or other information considered pertinent. The permit shall require the owner to complete construction and connection of the building sewer to the public sewer within 60 days after the issuance of the permit, except that when a property owner makes sufficient showing that due to conditions beyond the owner's control or peculiar hardship, such time period is inequitable or unfair, an extension of time within which to comply with the provisions herein may be granted. Any sewer connection permit may be revoked at any time for a violation of these chapters.

**96.02 CONNECTION CHARGE.** If the property to be connected to a public sewer has not been assessed for any part of the cost of construction of the public sewers, or has been assessed only as an unimproved lot, the owner shall pay a special connection charge to the City for the use of the public sewers in relation to the benefits received by the property, which shall be determined by the Superintendent subject to approval, modification or revocation by the Council at its next regular meeting.

**96.03 PLUMBER REQUIRED.** All installations of building sewers and connections to the public sewer shall be made by a State-licensed plumber.

**96.04 EXCAVATIONS.** All trench work, excavation, and backfilling required for the installation of a building sewer shall be performed in accordance with the provisions of the *State Plumbing Code* and the provisions of Chapter 135 of this Code of Ordinances.

**96.05 CONNECTION REQUIREMENTS.** Any connection with a public sanitary sewer must be made under the direct supervision of the Superintendent and in accordance with the following:

1. **Old Building Sewers.** Old building sewers may be used in connection with new buildings only when they are found, on examination and test conducted by the owner and observed by the Superintendent, to meet all requirements of this chapter.
2. **Separate Building Sewers.** A separate and independent building sewer shall be provided for every occupied building; except where one building stands at the rear of another on an interior lot and no private sewer is available or can be constructed to the rear building through an adjoining alley, court, yard, or driveway. In such cases the

building sewer from the front building may be extended to the rear building and the whole considered as one building sewer.

3. Installation. The installation and connection of the building sewer to the public sewer shall conform to the requirements of the *State Plumbing Code* and applicable rules and regulations of the City. All such connections shall be made gastight and watertight. Any deviation from the prescribed procedures and materials must be approved by the Superintendent before installation.

4. Water Lines. When possible, building sewers should be laid at least 10 feet horizontally from a water service. The horizontal separation may be less, provided the water service line is located at one side and at least 12 inches above the top of the building sewer.

5. Size. Building sewers shall be sized for the peak expected sewage flow from the building with a minimum building sewer size of four inches.

6. Alignment and Grade. All building sewers shall be laid to a straight line to meet the following:

- A. Recommended grade at one-fourth inch per foot.
- B. Minimum grade of one-eighth inch per foot.
- C. Minimum velocity of two feet per second with the sewer half full.
- D. Any deviation in alignment or grade shall be made only with the written approval of the Superintendent and shall be made only with approved fittings.

7. Depth. Whenever possible, the building sewer shall be brought to the building at an elevation below the basement floor. The depth of cover above the sewer shall be sufficient to afford protection from frost.

8. Sewage Lifts. In all buildings in which any building drain is too low to permit gravity flow to the public sewer, sanitary sewage carried by such drain shall be lifted by approved artificial means and discharged to the building sewer.

9. Pipe Specifications. Building sewer pipe shall be free from flaws, splits, or breaks. Materials shall be as specified in the *State Plumbing Code* except that the building sewer pipe, from the property line to the public sewer, shall comply with the current edition of one of the following:

- A. Clay sewer pipe – A.S.T.M. C-700 (extra strength).
- B. Extra heavy cast iron soil pipe – A.S.T.M. A-74.
- C. Ductile iron water pipe – A.W.W.A. C-151.
- D. P.V.C. – SDR26 – A.S.T.M. D-3034.

10. Bearing Walls. No building sewer shall be laid parallel to or within three feet of any bearing wall that might thereby be weakened.

11. Jointing. Fittings, type of joint and jointing material shall be compatible with the type of pipe used, subject to the approval of the Superintendent. Solvent-welded joints are not permitted.

12. Unstable Soil. No sewer connection shall be laid so that it is exposed when crossing any watercourse. Where an old watercourse must of necessity be crossed or where there is any danger of undermining or settlement, cast iron soil pipe or vitrified

clay sewer pipe thoroughly encased in concrete shall be required for such crossings. Such encasement shall extend at least six inches on all sides of the pipe. The cast iron pipe or encased clay pipe shall rest on firm, solid material at either end.

13. Preparation of Basement or Crawl Space. No connection for any residence, business or other structure with any sanitary sewer shall be made unless the basement floor is poured, or in the case of a building with a slab or crawl space, unless the ground floor is installed with the area adjacent to the foundation of such building cleared of debris and backfilled. The backfill shall be well compacted and graded so that the drainage is away from the foundation. Prior to the time the basement floor is poured, or the first floor is installed in buildings without basements, the sewer shall be plugged and the plug shall be sealed by the Superintendent. Any accumulation of water in any excavation or basement during construction and prior to connection to the sanitary sewer shall be removed by means other than draining into the sanitary sewer.

**96.06 INTERCEPTORS REQUIRED.** Grease, oil, sludge, and sand interceptors shall be provided by gas and service stations, convenience stores, car washes, garages, and other facilities when, in the opinion of the Superintendent, they are necessary for the proper handling of such wastes that contain grease in excessive amounts or any flammable waste, sand, or other harmful ingredients. Such interceptors shall not be required for private living quarters or dwelling units. When required, such interceptors shall be installed in accordance with the following:

1. Design and Location. All interceptors shall be of a type and capacity as specified in the *State Plumbing Code*, to be approved by the Superintendent, and shall be located so as to be readily and easily accessible for cleaning and inspection.
2. Construction Standards. The interceptors shall be constructed of impervious material capable of withstanding abrupt and extreme changes in temperature. They shall be of substantial construction, watertight and equipped with easily removable covers that shall be gastight and watertight.
3. Maintenance. All such interceptors shall be maintained by the owner at the owner's expense and shall be kept in continuously efficient operations at all times.

**96.07 SEWER TAP.** Connection of the building sewer into the public sewer shall be made at the "Y" branch, if such branch is available at a suitable location. If no properly located "Y" branch is available, a saddle "Y" shall be installed at the location specified by the Superintendent. The public sewer shall be tapped with a tapping machine and a saddle appropriate to the type of public sewer shall be glued or attached with a gasket and stainless steel clamps to the sewer. At no time shall a building sewer be constructed so as to enter a manhole unless special written permission is received from the Superintendent and in accordance with the Superintendent's direction if such connection is approved.

**96.08 INSPECTION REQUIRED.** All connections with the sanitary sewer system before being covered shall be inspected and approved, in writing, by the Superintendent. As soon as all pipe work from the public sewer to inside the building has been completed, and before any backfilling is done, the Superintendent shall be notified and the Superintendent shall inspect and test the work as to workmanship and material; no sewer pipe laid underground shall be covered or trenches filled until after the sewer has been so inspected and approved. If the Superintendent refuses to approve the work, the plumber or owner must proceed immediately to correct the work.

**96.09 PROPERTY OWNER'S RESPONSIBILITY.** All costs and expenses incident to the installation, connection, and maintenance of the building sewer, from the main to the building

served, shall be borne by the owner. The owner shall indemnify the City from any loss or damage that may directly or indirectly be occasioned by the installation of the building sewer.

**96.10 ABATEMENT OF VIOLATIONS.** Construction or maintenance of building sewer lines, whether located upon the private property of any owner or in the public right-of-way, which construction or maintenance is in violation of any of the requirements of this chapter, shall be corrected, at the owner's expense, within 30 days after date of official notice from the Council of such violation. If not made within such time, the Council shall, in addition to the other penalties herein provided, have the right to finish and correct the work and assess the cost thereof to the property owner. Such assessment shall be collected with and in the same manner as general property taxes.

*(Code of Iowa, Sec. 364.12[3])*

**96.11 MANDATORY DISCONNECTIONS.** The owner of real estate to which sanitary sewer service is being given by the City shall, within six months of the vacation and abandonment of said real estate, disconnect all sewer service to said real estate at the main line. Any disconnection shall be made by a plumber. Any disconnection must be made under the direct supervision of the Superintendent or an authorized assistant. All disconnections must be inspected and approved in writing by the Superintendent before they are covered, and the Superintendent shall keep a record of such approvals. If the Superintendent refuses to approve the work, the plumber or owner must proceed immediately to correct the work so that it will meet with the approval of the Superintendent. The property owner shall permit the Superintendent or an authorized assistant to enter the premises to inspect at all reasonable hours. Should any property owner fail to complete the disconnection within six months of the vacation or abandonment of the real estate, or should the work be improperly done, the Superintendent shall have the right to finish or correct the work, and the Council shall assess the costs to the property owner. If the property owner is assessed, such assessments shall be collected with and in the same manner as general property taxes.

**96.12 TEMPORARY VACANCY.** Vacation or abandonment of real estate does not include temporary vacation of houses, stores or buildings but applies in all instances where buildings are being torn down and the land cleared and in all instances where the buildings on real estate are permanently vacated. "Permanently vacated" means, for the purposes of this chapter, buildings that have not been occupied or inhabited for a period of one year.

**96.13 LOCATION OF SEWER DISCONNECTIONS.** Unless otherwise directed by the Council, all private sewers shall be disconnected from the public sewer system of the City at a point between the property line dividing private property from City or other public property and the traveled portion of the City street system. The Council shall have the authority to determine that a disconnection of a private sewer from the public sewer system is to be made at a location other than as therein provided for.

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